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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/517,533

01/04/2005

Aki Niemi

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8981

32294

7590

06/28/2006

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EXAMINER

ALAM, FAYYAZ

ART UNIT

PAPER NUMBER

2631

DATE MAILED: 06/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/517,533

Applicant(s)

NIEMI ET AL.

Examiner

Fayyaz Alam

Art Unit

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 January 2005.  
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 - 18 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1 - 18 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 01/04/2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 12/13/2004  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Information Disclosure Statement***

2. The information disclosure statement submitted on 12/13/2004 has been considered by the Examiner and made of record in the application file.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

**Claims 1 - 7 and 11 - 18** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Bobde et al. (U.S. Application # 2003/0217142)**, in view of **Koskelainen (U.S. Patent # 6,885,861)**.

Consider **claim 1**, Bobde et al. disclose a method in a communication system (see title), the system comprising a registrar or registration program (154) (read as first entity) for maintaining registration information ([0028]; [0029]; figure 3; a registration program along with a registrar is disclosed in paragraph [0029] to process registration information, therefore it inherently maintains registration) from user (103) and user (107) (read as plurality of users; see figure 3) and a presence agent (152) (read as second entity) for maintaining presence information (read as information) associated with said user (103) and user (107) (read as plurality of users), wherein said presence agent (read as second entity) information is dependent on the registration information ([0028]; [0029]; figure 3), and said method comprising:

sending notifications (read as sending a subscribe message; [0028]) of changes in the presence of computing devices (read as an event) from the presence agent (152) (read as second entity) to the registrar or registration program (154) (read as first entity; examiner takes note that it is not explicitly disclosed in paragraph [0028] but it is stated that one of the tasks of the presence agent (152) is to “generate notifications of changes” which would inherently be sent or queried to the “registrar” since that is where the user registration resides), wherein the change in the presence of computing devices (read as event) is an introduction of a user to the network (read as change in registration information; [0028]) of at least first user (103) (read as one of the plurality of users at the first entity; [0028]);

receiving at the registrar or registration program (154) (read as first entity) a register message ([0028]) from at least user (103) (read as one user), said message changing the registration information (by way of processing presence information) of said at least user (103) (read as one user) ([0028]);

The invention as disclosed by Bobde et al. fail to disclose sending a notification from the first entity to the second entity in response to the register message, wherein the notification includes information associated with said at least one user.

In the related field of endeavor, **Koskelainen (U.S. Patent # 6,885,861)**, clearly discloses sending a SIP NOTIFY (read as notification; column 7, lines 60 - 66) from the push proxy (301) (read as first entity) (push proxy (301) also known as the SIP registrar; column 6, lines 12 - 16) to the presence server (303) (read as second entity) in response to the SIP SUBSCRIBE message (read as register message), wherein the

SIP NOTIFY includes location/status (read as information) associated with the user terminal (read as at least one user) (column 7, lines 60 - 66).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate the teachings of Koskelainen with that of Bobde et al. in order to provide improved quality of service by using an acknowledgement or a notification message in response to the received message.

Consider **claim 2** in view of claim 1, Bobde et al. as modified by Koskelainen disclose a method, where an event header (read as event package [0030]; since the header inherently defines the type of package) is defined, the event header (read event package) being associated with said change in presence of computing device (read as an event) ([0030]).

Consider **claim 3** in view of claim 2, Bobde et al. as modified by Koskelainen disclose a method, wherein a registrar or a registration program (154) (read as first entity; [0029]) is defined.

Consider **claim 4** in view of claim 3, Bobde et al. as modified by Koskelainen disclose a method, wherein the change in registration information relates to presence information ([0028]).

Consider **claim 5** in view of claim 4, Bobde et al. as modified by Koskelainen disclose a method, wherein a presence agent (152) (read as second entity) is a presence server ([0028]).

Consider **claim 6** in view of claim 1, Bobde et al as modified by Koskelainen disclose a method, wherein the system (read as invention) operates in accordance with a session initiation protocol or SIP ([0022]).

Consider **claim 7**, Bobde et al. fail to disclose the method, wherein the subscribe message comprises a SIP SUBSCRIBE message, and the notification comprises a SIP NOTIFY message.

In the related field of endeavor, Koskelainen discloses the method, wherein the SIP event notification (read as subscribe message) comprises a SIP SUBSCRIBE message (column 7, lines 5 - 7), and the response (read as notification) comprises a SIP NOTIFY message (column 7, lines 60 - 66).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate the teachings of Koskelainen with that of Bobde et al. in order to use the conventional and well-known communication messages in session initiation protocol.

Consider **claim 11**, Bobde et al. disclose a communication system (see title) comprising:

a registrar (154) (read as first entity) for maintaining registration information ([0028]; [0029]; figure 3; a registration program along with a registrar is disclosed in paragraph [0029] to process registration information, therefore it inherently maintains registration) from user (103) and user (107) (read as plurality of users; see figure 3) and a presence agent (152) (read as second entity) for maintaining presence information (read as information) associated with said user (103) and user (107) (read as plurality of

users), wherein said presence agent (read as second entity) information is dependent on the registration information ([0028]; [0029]; figure 3);

said presence agent (152) (read as second entity) operable to send notifications (read as sending a subscribe message; [0028]) of changes in the presence of computing devices (read as an event) to the registrar (154) (read as first entity), and said registrar or registration program (154) (read as first entity) operable to receive a register message ([0028]) from at least user (103) (read as one user), said register message changing the registration information (by way of processing presence information) of said at least user (103) (read as one user), wherein the change in the presence of computing devices (read as event) is associated with the introduction of a user to the network (read as change in registration information; [0028]) of at least user (103) or user (107) (read as one of the plurality of users at the first entity; [0028]) at the registrar (read as first entity ([0028])); and

The invention as disclosed by Bobde et al. fail to disclose said first entity operable to send a notification from the first entity to the second entity in response to the register message, wherein the notification includes information associated with said at least one user.

In the related field of endeavor, **Koskelainen (U.S. Patent # 6,885,861)**, clearly discloses said push proxy (301) (read as first entity; push proxy (301) also known as the SIP registrar; column 6, lines 12 - 16) operable to send a SIP NOTIFY (read as notification; column 7, lines 60 - 66) from the push proxy (301) (read as first entity) to the presence server (303) (read as second entity) in response to the SIP SUBSCRIBE



message (read as register message), wherein the SIP NOTIFY (read as notification) includes location/status (read as information) associated with the user terminal (read as at least one user) (column 7, lines 60 - 66).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate the teachings of Koskelainen with that of Bobde in order to provide improved quality of service by using an acknowledgement or a notification message in response to the received message.

Consider **claim 12** in view of claim 11, Bobde et al. as modified by Koskelainen disclose a communication system further comprising an event header (read as event package [0030]; since the header inherently defines the type of package) associated with said change in presence of computing device (read as an event) ([0030]).

Consider **claim 13** in view of claim 12, Bobde et al. as modified by Koskelainen disclose a communication system with a registrar or a registration program (154) (read as first entity; [0029]; figure 3).

Consider **claim 14** in view of claim 13, Bobde et al. as modified by Koskelainen disclose a communication system, wherein the change in registration information relates to presence information ([0028]).

Consider **claim 15** in view of claim 4, Bobde et al. as modified by Koskelainen disclose a communication system, wherein a presence agent (152) (read as second entity) is a presence server ([0028]).

Consider **claim 16** in view of claim 1, Bobde et al as modified by Koskelainen disclose a communication system, wherein the system (read as invention) operates in accordance with a session initiation protocol or SIP ([0022]).

Consider **claim 17**, Bobde et al. disclose a network element (see figure 3) comprising:

means for maintaining registration information ([0028]; [0029]; figure 3; a registration program along with a registrar is disclosed in paragraph [0029] to process registration information, therefore it inherently maintains registration) from user (103) and user (107) (read as plurality of users; see figure 3);

means for receiving notifications (read as receiving a subscribe message; [0028]; figure 3) of changes in the presence of computing devices (read as an event) from a registrar (154) (read as first entity), wherein the change in the presence of computing devices (read as event) is associated with an introduction of a user to the network (read as change in registration information; [0028]) of at least first user (103) (read as one of the plurality of users at the first entity; [0028]) at the network element (figure 3);

means for receiving a register message ([0028]) from at least first user (read as one user), said register message changing the registration information (by way of processing presence information) of said at least first user (read as one user) ([0028]);

The invention as disclosed by Bobde et al. fail to disclose means for sending a notification from the first entity in response to the register message, wherein the notification includes information associated with said at least one user.

In the related field of endeavor, **Koskelainen (U.S. Patent # 6,885,861)**, clearly discloses a means for sending a SIP NOTIFY (read as notification; column 7, lines 60 - 66) from the push proxy (301) (read as first entity; push proxy (301) also known as the SIP registrar; column 6, lines 12 - 16) in response to the SIP SUBSCRIBE message (read as register message), wherein the SIP NOTIFY (read as notification) includes location/status (read as information) associated with the user terminal (read as at least one user) (column 7, lines 60 - 66).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate the teachings of Koskelainen with that of Bobde in order to provide improved quality of service by using an acknowledgement or a notification message.

Consider **claim 18**, Bobde et al. disclose a network element (see figure 3) comprising:

means for maintaining presence information (read as information) associated with said first user (103) and second user (read as plurality of users), wherein said information is dependent on the registration information ([0028]; [0029]; figure 3), maintained at registrar (154) (read as first entity);

means for sending notifications (read as sending a subscribe message; [0028]) of changes in the presence of computing devices (read as an event) to the registrar (154) (read as first entity), wherein the change in the presence of computing devices (read as event) is associated with an introduction of a user to the network (read as

change in registration information; [0028]) of at least first user (103) (read as one of the plurality of users at the first entity; [0028]);

The invention as disclosed by Bobde et al. fail to disclose a means for receiving a notification from the first entity, wherein the notification includes information associated with said at least one user.

In the related field of endeavor, **Koskelainen (U.S. Patent # 6,885,861)**, clearly discloses **a means for receiving** a SIP NOTIFY (read as notification; column 7, lines 60 - 66) from the push proxy (301) (read as first entity) (push proxy (301) also known as the SIP registrar; column 6, lines 12 - 16), wherein the SIP NOTIFY (notification) includes location/status (read as information) associated with the user terminal (read as at least one user) (column 7, lines 60 - 66).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate the teachings of Koskelainen with that of Bobde in order to provide improved quality of service by using an acknowledgement or a notification message.

**Claims 8 and 9** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Bobde et al. and Koskelainen** as applied to claims 1 - 7 above, and further in view of **Donovan ("IMPS - Instant Messaging and Presence Using SIP. Fall VON Developers' Conference", Sep. 13, 2000, [www.dynamicsoft.com](http://www.dynamicsoft.com))**.

Consider **claim 8** in view of claim 1, Bobde et al. and Koskelainen fail to disclose a method, wherein a third entity sends a subscribe message to the second entity for information associated with said at least one user.

In the related field of endeavor, Donovan discloses a method, wherein a proxy server (read as third entity) sends a subscribe message to presence server (read as second entity for information associated with at least one user (see figure on page 7).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate the teachings of Donovan with that of Bobde et al. and Koskelainen since this signaling scheme is well known and exists in most applications in the application layer.

Consider **claim 9** in view of claim 8, Bobde et al. and Koskelainen fail to disclose the method, wherein the second entity sends a notification to the third entity in response to the notification received at the second entity, wherein said sent notification includes information associated with said at least one user.

In the related field of endeavor, Donovan discloses the method, wherein the presence server (read as second entity) sends an accepted message (read as notification) to the proxy server (read as third entity) in response to the subscribe (read as notification) received at the presence server (read as second entity), wherein said sent accepted message (read as notification) includes information associated with said at least one user (Donovan, page 7).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate the teachings of Donovan with that of Bobde et al. and Koskelainen since this signaling scheme is well known and exists in most applications in the application layer.

**Claim 10** is rejected under 35 U.S.C. 103(a) as being unpatentable over **Bobde et al., Koskelainen, and Donovan** as applied to claims 1 - 9 above, and further in view of **Mulligan et al. (U.S. Application # 2003/0105864)**.

Consider **claim 10** in view of claim 8, Bobde et al., Koskelainen, and Donovan fail to disclose the method, wherein the third entity is an application server.

In the related field of endeavor, Mulligan et al. clearly disclose the method, wherein the third entity is an application server (1004) ([0079]).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate the teachings of Mulligan et al. with that of Bobde et al., Koskelainen, and Donovan in order to provide interaction and access of multiple applications to the presence information.

### ***Conclusion***

5. Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

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**Hand-delivered responses** should be brought to

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fayyaz Alam whose telephone number is (571) 270-1101. The Examiner can normally be reached on Monday-Friday from 7:30am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Rafael Perez-Gutierrez can be reached on (571) 272-7915. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

*Fayyaz Alam*

**EDAN ORGAD**  
**PATENT EXAMINER/TELECOMM.**

*Edan Orgad* 6/12/06

June 8, 2006